AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) An apparatus for extracting an outline of an object using a CAD data and a non-contact measuring point data comprising an extracted origin data memory module ~~means for~~ that stores ~~storing~~ the CAD data and the non-contact measuring point data previously aligned with the CAD data; an analytic surface extracting module ~~means for~~ that extracts ~~extracting~~ an analytic surface having a predetermined configuration from the CAD data; a surface generating module ~~means for~~ that carries ~~carrying~~ out ~~the~~ surface generation using the analytic surface and the non-contact measuring point data; and a crossing line extracting module ~~means for~~ that extracts ~~extracting~~ a crossing line of surfaces generated by the surface generating module ~~means~~ as the outline.

2. (Currently Amended) An apparatus of claim 1 wherein further comprising a nearby point extracting module ~~means for~~ that extracts ~~extracting~~ the non-contact measuring point data within a predetermined distance from the analytic surface and that uses ~~for using~~ the extracted non-contact measuring point data as the non-contact measuring point data used in the surface generating module ~~means~~.

3. (Original) A method for extracting an outline of an object using a CAD data and a non-contact measuring point data comprising steps of inputting the CAD data and the non-contact measuring point data previously aligned with the CAD data; extracting an analytic surface having a predetermined configuration from the CAD data; carrying out the surface generation using the analytic surface and the non-contact measuring point data; and extracting a crossing line of surfaces generated by the surface generating means as the outline.

4. (Original) A method of claim 3 wherein further comprising steps of carrying out a nearby point process for extracting the non-contact measuring point data within a predetermined distance from the analytic surface and also carrying out the surface generation by using the nearby point processed non-contact measuring point data and the analytic surface.

5. (Currently Amended) A computer readable memory medium stored with a program for extracting an outline of an object using a CAD data and a non-contact measuring point data characterized in that said computer readable memory medium is further stored with a program for executing in a ~~the~~ computer an analytic surface extracting module ~~means for~~ that extracts ~~extracting~~ an analytic surface having a predetermined configuration from the CAD data; a surface generating module ~~means for~~ that carries ~~carrying~~ out ~~the~~ surface generation using the analytic surface and the non-contact measuring point data; and a crossing line extracting module ~~means for~~ that extracts a crossing line of surfaces generated by the surface generating module ~~means~~ as the outline.

6. (Currently Amended) A computer readable memory medium stored with a program for extracting an outline of an object using a CAD data and a non-contact measuring point data characterized in that said computer readable memory medium is further stored with a program for executing in a ~~the~~ computer an analytic surface extracting module ~~means for~~ that extracts ~~extracting~~ an analytic surface having a predetermined configuration from the CAD data; a nearby point processing module ~~means for~~ that extracts ~~extracting~~ the non-contact measuring point data within a predetermined distance from the analytic surface; a surface generating module ~~means for~~ that carries ~~carrying~~ out ~~the~~ surface generation using the analytic surface and the non-contact measuring point data extracted by the nearby point processing module ~~means~~; and a crossing line extracting module ~~means for~~ that extracts ~~extracting~~ a crossing line of surfaces generated by the surface generating module ~~means~~ as the outline.

7. (Currently Amended) A computer readable memory medium stored with a data obtained by extracting an analytic surface having a predetermined configuration from ~~the~~ CAD data; carrying out ~~the~~ surface generation using the analytic surface and ~~the~~ non-contact measuring point data; and extracting a crossing line of surfaces generated during the carrying step ~~by the surface generating means~~ as the outline.